G.W.P. 5670-10-00

HIGHWAY 17 PLANNING STUDY

From 2.2 km east of Highway 531 to 8.0 km east of Highway 630

PLANNING, PRELIMINARY DESIGN
AND CLASS ENVIRONMENTAL ASSESSMENT STUDY

TRANSPORTATION ENVIRONMENTAL STUDY REPORT

August 2014
TRANSPORTATION ENVIRONMENTAL STUDY REPORT

HIGWAY 17 PLANNING STUDY
From 2.2 km east of Highway 531 to 8.0 km east of Highway 630
G.W.P. 5670-10-00

Planning, Preliminary Design and Class Environmental Assessment Study

Prepared for the Ministry of Transportation Ontario by AECOM

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THE PUBLIC RECORD

A copy of this document has been submitted to the following office of the Ministry of the Environment to be placed in the Public Record:

Ministry of the Environment
North Bay Area Office
191 Booth Road, Unit 16 & 17
North Bay, ON P1A 4K3

This Transportation Environmental Study Report is available for a minimum 30-day public review period commencing on Monday August 25, 2014 at the review location listed below during regular business hours. The report is also available on the study website at: www.highway17routeplanning.ca (click middle section).

Township of Bonfield
Clerk’s Office
365 Highway 531, Bonfield
(705) 776-2641

Municipality of Calvin
Clerk / Administration Office
1355 Peddiers Drive, RR 2, Mattawa
(705) 744-2700

Township of Papineau-Cameron
Clerk / Administration Office
4861 Highway 17 West, Mattawa
(705) 744-5610

Ministry of Transportation Ontario
Northern Region
447 McKeown Avenue, Security Desk
North Bay, ON P1B 9S9

Mattawa Public Library
370 Pine Street, Mattawa
(705) 744-5550

Bonfield Public Library
365 Highway 531, Bonfield
(705) 776-2396


NOTICE OF FILING OF TRANSPORTATION ENVIRONMENTAL STUDY REPORT

Highway 17 Planning Study
From 2.2 km east of Highway 531 easterly to 8.0 km east of Highway 620
G.W.P. 5670-10-00

THE STUDY

The Ontario Ministry of Transportation retained AECOM to undertake a Class Environmental Assessment to identify a preferred alignment and Environmental Impact Statement for a new highway, Highway 17, within the study area with environmental guidelines to enhance roadways. The study developed and evaluated a range of reasonable alternatives, including improvements to the existing highway, new highway routes, and/or combinations of the two and has submitted a Preferred Plan. The study findings are shown on the key plan.

THE PROCESS

The study has followed the approved environmental planning process for Group A projects under the Class Environmental Assessment for Provincial Transportation Facilities (GAP) with agency and public consultation throughout. A Transportation Environmental Study Report (THER) has been prepared to document the study process, the highway planning alternatives considered and the Preferred Plan including environmental protection measures and commitments for future action with regard to implementation of the project.

The THER has been placed on the public record at the Ministry of Environment (MOE) for a 30-day review period beginning Monday August 25, 2014. Copies of the document have also been placed at the following locations and on the project website www.highway17routeplanning.ca.

The Preferred Plan includes:

- Widening and improvements to Highway 17 from Highway 531 to Highway 620.
- A service road from Highway 531 east to Highway 620.
- Environmental protection measures.
- Commitments associated with the project.

THE RECOMMENDATION

The Preferred Plan is recommended by the study team for submission for project approval.

The findings of the study are detailed in the Transportation Environmental Study Report. For more information, please refer to the report.

COMMENTS

To obtain additional information, provide comments or to be placed on the mailing list, please contact:

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If you have any accessibility requirements in order to participate in this project, please contact one of the Project Team members listed below. A form will be provided to each individual that lists the accommodation that may be provided. Your comments will be used in the preparation of the Final Environmental Impact Statement and Final Environmental Impact Statement for the project.

Additional information and comments are acceptable at any time during the review period. AECOM will continue to accept comments for the Environmental Impact Statement and Environmental Impact Statement of the project.

Des renseignements sont disponibles en français en composant 1-866-486-1183 poste 2020, David Lellanto (Courriel: David.Lellanto@aecom.com).
Executive Summary

Project Overview

This Transportation Environmental Study Report (TESR) documents the Planning, Preliminary Design and Class Environmental Assessment (EA) Study completed by the Ministry of Transportation (MTO) to identify a preferred plan for Highway 17 from Bonfield easterly through the Municipality of Calvin to improve future traffic operations and enhance highway safety. The study limits extend from approximately 2.0 km east of Highway 531 to the boundary road between the Municipality of Calvin and the Township of Papineau-Cameron, a distance of approximately 23 km, passing through parts of the Township of Bonfield, the Municipality of Calvin and the Township of Papineau-Cameron.

The study followed the approved environmental planning process for Group ‘A’ projects under the Class Environmental Assessment (EA) for Provincial Transportation Facilities (2000), which is approved under the Ontario Environmental Assessment Act (OEAA) for the planning and design of provincial highway projects. The EA planning process complied with provincial and federal environmental legislation and included consideration of the natural, socio-economic and cultural environment.

A range of reasonable alternatives, including improvements to the existing highway, highway realignments and combinations of the two as well as interchange alternatives, were developed and evaluated to identify the preferred plan. Engineering, environmental and property requirements were established, including mitigation measures to avoid, reduce or negate environmental effects.

Section 1 of this TESR provides an overview of the project while Section 2 provides further details regarding the Environmental Assessment (EA) process which was used to carry out the study.

Transportation Needs and Opportunities

Highway 17 traverses northern Ontario, providing a strategic link in the Trans-Canada Highway. Besides providing for basic travel needs for residents as well as visitors to the area, the subject section of Highway 17 provides a transportation corridor for long haul trucks between Northern Ontario/ Western Canada and Southeastern Ontario/ Eastern Canada. Within the study limits, Highway 17 is primarily a two lane highway with limited access restrictions and access in both directions provided via private driveways and local roadways.

MTO is committed to provide and maintain a safe and efficient transportation system throughout Ontario. Highway 17 within the study limits has been characterized as having several issues/concerns that require the attention of MTO. These issues/concerns are defined in general terms as including the need to improve highway safety and provide the additional highway traffic capacity that will be required for the long range (20-year) planning horizon.

The need for improvements to the major highways in Northern Ontario is driven by both the policy direction and the anticipated future demand. It is reasonable to expect that the overall transportation demand on Highway 17, despite moderate historical growth, will intensify significantly as a result of the Growth Plan for Northern Ontario justifying the potential need for additional capacity within the corridor. In addition, an improved corridor will itself be a significant economic stimulant for development.

As part of the province’s long term planning vision, Highway 17 is to be converted to a fully access controlled facility adequate for meeting the anticipated future transportation demand and maintaining its provincial and interprovincial role and function.

Further details regarding the role and function of Highway 17 as part of the provincial highway system and existing and future transportation needs and opportunities are provided in Section 3.

Existing Environmental Conditions

To support the development of the recommended alternative, existing conditions and constraints in the study area were inventoried (primarily from secondary sources augmented by field reconnaissance) so as to identify significant areas within the study limits and in order to determine a highway corridor within which alternative methods of carrying out the undertaking (alternative widening/realignment designs) could be generated.

Key environmental conditions and constraints within the study area include:
- three provincial parks: Samuel de Champlain, Mattawa River (waterways class), and Amable du Fond River (waterway class and living legacy site);
- Pimisi Roadside Picnic Area;
- OVR / CPR rail line, Trans Canada pipeline and Union Gas spur pipeline;
- hamlet of Rutherford and its associated residential development, two churches and a cemetery;
- highway oriented businesses along existing Highway 17 (gas station, restaurant, outfitter);
- the Columbia Forest Products plant;
- private entrances onto existing Highway 17;
- tourist-related facilities/ businesses (cabins, campgrounds, marinas, recreational areas);
- other rural residential and commercial development, including farm structures;
- aggregate sites and designated aggregate removal areas;
- waste management sites;
- Mattawa River, Amable du Fond River, the lakes and watercourses draining into them, and associated fish habitat and spawning areas;
- significant wildlife habitat (fish spawning areas, ungulate wintering yards and significant bird nesting sites) and wildlife movement;
- Provincially Significant Wetlands (PSWs);
- environmental protection area (Rutherford Moraine Shoreline and Kame ANSI); and
- recreational trails (snowmobiles, canoes, hiking trails, etc).

Further details regarding the key features in the study area are provided in Section 4.

Alternatives and Evaluation

Alternatives (to the undertaking) were identified which could address the transportation needs in the study area. A screening level evaluation of these alternatives was completed and presented in the Study Design Report. The recommended alternative, which was presented at PIC #1, includes:
- segments of widening/improving the existing highway, including service roads in some areas
- segments of realigned highway
A single highway corridor was identified based on the physical constraints and environmental conditions identified within the study area.

The generation of highway planning alternatives within the selected highway corridor considered physical constraints and environmental conditions. In the Rutherglen and Amable du Fond areas, widening of the existing highway is not possible due to physical constraints and environmental conditions. Therefore, realignment alternatives were generated for these two areas while widening alternatives were generated for the Pimisi Bay and Pautois Creek areas.

The evaluation of highway planning alternatives was completed on a comparative basis for each of the four highway realignment and widening alternative areas (with associated interchanges and service roads). The comparative evaluation identified a recommended highway planning alternative for each highway realignment and widening area according to the potential impacts to:

- Natural Environment Factors
- Socio-Economic/ Land Use Factors
- Cultural Factors
- Transportation Factors
- Cost and Constructability Considerations

Interchanges are proposed at three locations: Rutherglen Line; Highway 630; and Boundary Road. Alternative configurations for each interchange location were generated and comparatively evaluated using the same criteria developed to assess highway planning alternatives in order to identify a recommended configuration at each location.

Further details regarding the generation, assessment and evaluation of alternatives to the undertaking and alternative methods for the undertaking (planning alternatives) are documented in Section 5.

Consultation/ Engagement

The study included an extension stakeholder consultation and engagement program. Key elements of the consultation program were:

- Newspaper notices and mailouts;
- External communications with stakeholders, including departments, ministries, agencies, First Nations Groups, municipalities and members of the public;
- Municipal and agency meetings;
- Municipal Council presentations;
- Three Public Information Centres (PICs) held at key points during the study;
- A study newsletter for each PIC;
- Project Website to provide information and receive inquiries from the public; and
- Direct contact with the Project Team via mail, email, phone and meetings.

A summary of consultation and engagement undertaken during the course of the study is provided in Section 6, including the input received and how it was considered.

Preferred Plan

On the basis of the assessment and evaluation results, the Preferred Plan for Highway 17 includes:

- Realignment of Highway 17 from Highway 531 to east of Rutherglen;
- Widening and realignment of Highway 17 from east of Rutherglen to west of Highway 630;
- Realignment of Highway 17 from west of Highway 630 to west of Pautois Creek;
- Widening of Highway 17 from west of Pautois Creek to the east study limit (just east of Boundary Road);
- Closure of existing Highway 17 from east of Highway 630 to west of Pautois Creek;
- Retention of existing Highway 17 as a service road at all other locations;
- Interchanges at Rutherglen Line, Highway 630 and Boundary Road with partial illumination provided at the ramp terminals;
- A grade separation at Trout Pond Road and Trunk Road; and
- A cul-de-sac at McNutt Road.

The cross section for the highway is a freeway with two lanes in each direction. The freeway will include a 30m median within a typical right-of-way width of 110m and have access restricted to interchanges.

The Preferred Plan is presented on the following two fold-outs. Further details regarding the Preferred Plan are presented in Section 7 and the larger scale plates in Appendix A.

Potential Environmental Effects and Proposed Mitigation Measures

Potential environmental impacts associated with the implementation of the preferred plan include:

- 21 watercourse crossings with 14 crossings having potential for impacts to direct and/or indirect fish habitat and 1 crossing having potential to impact aquatic species at risk;
- Approximately 295 ha of vegetation is displaced, including 16 ha of PSW, 34 ha of unevaluated wetland, 110 ha of deer wintering area and 185 ha of forest with 1 vegetative Species at Risk (SAR) present;
- Property acquisition is required from 80 properties and 33 buildings are impacted;
- Approximately 12 ha of provincial parkland is impacted;
- Approximately 61 ha of Canada Land Inventory (CLI) Class 1, 2 and 3 soils is impacted; and
- Approximately 160 ha of land with archaeological potential is affected.

Preliminary mitigation measures have been developed to address potential impacts associated with the preferred plan and are discussed in Section 8 with additional details provided in the Appendices to this document.
Exhibit E.1: Preferred Plan – East of Highway 531 to East of Rutherglen
Exhibit E.2: Preferred Plan – East of Rutherglen to East of Boundary Road
1. PROJECT OVERVIEW .................................................. 1-1
  1.1 Introduction and Study Area ........................................ 1-1
  1.2 Background and Study Purpose ................................... 1-1
  1.3 Related / Adjacent Studies and Projects .......................... 1-2

  1.3.1 Highway 17 Planning Study, from Highway 11 South Junction east to 2.7 km east of Highway S31 (GWP 505-09-00) .......................... 1-2
  1.3.2 Highway 17 Planning Study, from 8.0 km west of Highway 630 to Nipissing District/ Renfrew County Boundary (GWP 507-07-00) ......................... 1-2

  1.4 General Description of the Undertaking (Preferred Plan) .... 1-3

2. ENVIRONMENTAL ASSESSMENT PROCESS ....................... 2-1
  2.1 Ontario Environmental Assessment Act .......................... 2-1
  2.2 Canadian Environmental Assessment Act .......................... 2-1
  2.3 Study Process ...................................................... 2-3
  2.4 Purpose of the Transportation Environmental Study Report .... 2-4

3. TRANSPORTATION NEEDS AND OPPORTUNITIES ................. 3-1
  3.1 Role and Function of Highway 17 ................................. 3-1
  3.2 Needs and Opportunity Statement ................................ 3-1

4. EXISTING ENVIRONMENTAL CONDITIONS ......................... 4-1
  4.1 Overview of Study Area Environmental Conditions ............ 4-1

  4.2 Natural Environment .............................................. 4-1
    4.2.1 Physiography and Geology .................................. 4-1
    4.2.2 Hydrogeology .................................................. 4-1
    4.2.3 Surface Drainage .............................................. 4-3
    4.2.4 Fish and Fish Habitat ........................................ 4-3
    4.2.5 Fish Species at Risk and Province/y Rare Fish Species .... 4-3
    4.2.6 Terrestrial and Wetland Habitat ............................ 4-3
    4.2.7 Plant Species at Risk and Province/y Rare Plant Species ... 4-4
    4.2.8 Wildlife and Avian ............................................ 4-4
    4.2.9 Wildlife Species at Risk and Province/y Rare Wildlife Species ... 4-4
    4.2.10 Designated Areas .............................................. 4-6

  4.3 Socio-Economic Environment ..................................... 4-6
    4.3.1 Regional Setting and Economy ................................ 4-6
    4.3.2 Residential ................................................... 4-6
    4.3.3 Commercial / Business ......................................... 4-6
    4.3.4 Provincial Parks ............................................... 4-8
    4.3.5 Community/ Recreational/ Tourist Facilities .................. 4-8
    4.3.6 Property Waste and Contamination ........................... 4-8
    4.3.7 Highway Noise .................................................. 4-9
    4.3.8 Air Quality ..................................................... 4-10
    4.3.9 Agriculture ..................................................... 4-11

4.4 Cultural Environment .............................................. 4-11
  4.4.1 Built Heritage and Cultural Landscapes ....................... 4-11
  4.4.2 Archaeology .................................................... 4-14

4.5 Transportation and Utilities ..................................... 4-15
  4.5.1 Transportation Environment ................................... 4-15
  4.5.2 Utilities ........................................................ 4-16

5. ALTERNATIVES AND EVALUATION ................................ 5-1
  5.1 Alternatives to the Undertaking ................................. 5-1
    5.1.1 The Do Nothing Alternative .................................. 5-1
    5.1.2 Optimize Existing Area Transportation System ............... 5-1
    5.1.3 Expanded/ New Non-Road Infrastructure ....................... 5-1
    5.1.4 Widen/ Improve Existing Municipal Arterial Roads or New Municipal Roads .......................... 5-1
    5.1.5 Widen/ Improve Existing Provincial Highways and or Realign Provincial Highways .... 5-1
    5.1.6 Preferred Alternative to the Undertaking .................... 5-2

  5.2 Alternative Methods for Carrying Out the Undertaking ....... 5-5

  5.2.1 Selected Highway Corridor .................................... 5-5
  5.2.2 Highway Planning Alternatives ................................ 5-5
    5.2.2.1 Principles for Generation of Highway Planning Alternatives .......................... 5-5
    5.2.2.2 Selected Highway Cross Section ............................ 5-8
    5.2.2.3 Process for Evaluation of Highway Planning Alternatives .......................... 5-8
    5.2.2.4 Rutherford Area Realignment Alternatives .......... 5-10
    5.2.2.5 Pimisi Bay Area Widening Alternatives .................. 5-14
    5.2.2.6 Amable du Fond Area Realignment Alternatives .......... 5-20
    5.2.2.7 Paulotis Creek Area Realignment Alternatives .......... 5-24
    5.2.2.8 Interchange Alternatives ................................. 5-29

  5.2.3 Recommended Highway Planning Alternative ................... 5-50

  5.3 Refinements to the Recommended Highway Planning Alternative 5-51
    5.3.1 Trout Pond Road .............................................. 5-51
    5.3.2 Alignment Realignment west of Paulotis Creek .......... 5-51
    5.3.3 Service Road at Samuel de Champlain Provincial Park / Paulotis Creek Crossing .... 5-52

6. CONSULTATION ......................................................... 6-1
  6.1 Consultation Process .............................................. 6-1
  6.2 Agency and First Nations Consultation .......................... 6-1

  6.3 Study Notices ..................................................... 6-2
    6.3.1 Notice of Study Commencement ............................... 6-2
    6.3.2 Notice of Study Documentation ................................ 6-2

    6.3.3 Notice of Public Information Centre(s) ....................... 6-3
      6.3.3.1 Public Information Centre #1 ....................... 6-3
      6.3.3.2 Public Information Centre #2 ....................... 6-3
      6.3.3.3 Public Information Centre #3 ....................... 6-3

    6.3.4 Notice of Study Completion and Filing of the Transportation Environmental Study Report .... 6-4

  6.4 Public Information Centres ....................................... 6-4
    6.4.1 Public Information Centre #1 ................................ 6-4
    6.4.2 Public Information Centre #2 ................................ 6-5
    6.4.3 Public Information Centre #3 ................................ 6-6

  6.5 Study Website ..................................................... 6-6

  6.6 Study Newsletters ................................................. 6-7

August, 2014 

Ministry of Transportation
Ontario
Transportation Environmental Study Report
7. PREFERRED PLAN ........................................................................................................ 7-1
  7.1 Horizontal Alignment ......................................................................................... 7-1
  7.2 Vertical Alignment ............................................................................................ 7-1
  7.3 Cross Section ..................................................................................................... 7-1
  7.4 Crossing Roads .................................................................................................. 7-4
    7.4.1 Interchanges ............................................................................................... 7-4
    7.4.2 Grade Separations ..................................................................................... 7-4
    7.4.3 Cul-de-sacs ............................................................................................... 7-4
    7.4.4 Service Roads and Other Local Access .................................................... 7-4
  7.5 Structures .......................................................................................................... 7-8
  7.6 Illumination ........................................................................................................ 7-8
  7.7 Drainage and Stormwater Management ........................................................... 7-8

8. POTENTIAL ENVIRONMENTAL EFFECTS, MITIGATION MEASURES AND COMMITMENTS TO FURTHER WORK ................................................................. 8-1
  8.1 Natural Environment ......................................................................................... 8-1
    8.1.1 Groundwater ............................................................................................ 8-1
    8.1.2 Drainage and Surface Water ................................................................... 8-1
    8.1.3 Fish and Fish Habitat .............................................................................. 8-2
    8.1.4 Fish Species at Risk and Provincially Rare Fish Species ......................... 8-3
    8.1.5 Terrestrial and Wetland Habitat ............................................................. 8-3
    8.1.6 Wildlife and Avian .................................................................................... 8-5
    8.1.7 Species at Risk and Provincially Rare Species ....................................... 8-6
    8.1.8 Designated Areas ..................................................................................... 8-6
  8.2 Socio-Economic Environment ......................................................................... 8-7
    8.2.1 Property Impacts ....................................................................................... 8-7
    8.2.2 Commercial/ Business .......................................................................... 8-7
      8.2.2.1 Study Area Business Surveys ............................................................... 8-8
    8.2.3 Community/ Recreational/ Tourist Facilities ........................................... 8-9
    8.2.4 Property Waste and Contamination ....................................................... 8-9
    8.2.5 Noise ........................................................................................................ 8-10
    8.2.6 Air Quality ............................................................................................... 8-12
    8.2.7 Agriculture .............................................................................................. 8-15
  8.3 Cultural Environment ...................................................................................... 8-15
    8.3.1 Built Heritage and Cultural Landscapes ................................................. 8-15
    8.3.2 Archaeology ............................................................................................ 8-16
  8.4 Construction Staging/ Implementation Plan ...................................................... 8-16
  8.5 Summary of Environmental Effects, Proposed Mitigation and Commitments to Future Work ................................................................. 8-16
  8.6 Next Steps ....................................................................................................... 8-17

List of Exhibits

Exhibit 1.1: Study Limits ......................................................................................... 1-1
Exhibit 1.2: Highway 17 Planning Study, from Highway 11 South Junction easterly to 2.7 km east of Highway 531 – Study Limits (GWP 5105-09-00) ................................................................. 1-2
Exhibit 1.3: Highway 17 Planning Study, from 8 km east of Highway 630 to the Nipissing District / Renfrew County Boundary – Study Limits (GWP 507-07-00) ................................................................. 1-2
Exhibit 2.1: Overview of Class EA Process for Group ‘A’ Projects ............................. 2-2
Exhibit 2.2: Study Process ..................................................................................... 2-3
Exhibit 3.1: Highway 17 and the Provincial Highway Network ................................ 3-1
Exhibit 3.2: Overview of Highway Collision Severity ........................................... 3-2
Exhibit 3.3: Breakdown by Collision Category in the 2004 through 2010 Period ........ 3-2
Exhibit 3.4: Highway 17 Traffic Projections, from Highway 531 to Highway 630 .......... 3-2
Exhibit 4.1: Natural Environment Existing Conditions and Constraints ................. 4-2
Exhibit 4.2: Thermal Designation of Watercourses within the Highway 17 study area ................................................................. 4-3
Exhibit 4.3: Study Area Business / Tourist Operations ........................................... 4-6
Exhibit 4.4: Socio-Economic Environment Existing Conditions and Constraints .......... 4-7
Exhibit 4.5: Identified Areas of Interest (AOIs) ....................................................... 4-9
Exhibit 4.6: Existing Highway 17 Noise Levels .................................................... 4-9
Exhibit 4.7: Existing Highway 17 Noise Sensitive Receptors ................................... 4-10
Exhibit 4.8: Summary of Applicable Air Quality Guidelines and Standards .............. 4-10
Exhibit 4.9: Monitoring Station Data ...................................................................... 4-11
Exhibit 4.10: Ambient Air Quality Concentrations ................................................ 4-11
Exhibit 4.11: Cultural Environment Existing Conditions and Constraints ............... 4-12
Exhibit 4.12: Study Area Built Heritage Sites and Cultural Landscapes .................... 4-13
Exhibit 4.13: Registered Archaeological Sites within 1 km of the study area .............. 4-15
Exhibit 4.14: Utilities Along and Adjacent to Highway 17 ...................................... 4-16
Exhibit 5.1: Assessment and Selection of Alternative to the Undertaking ................... 5-3
Exhibit 5.2: Selected Highway Corridor ................................................................... 5-6
Exhibit 5.3: Highway Planning Alternatives, Study Area Subsections ....................... 5-7
Exhibit 5.4: Typical Cross-Section of Widened/ Improved/ Realigned Highway 17 ........ 5-8
Exhibit 5.5: Highway Planning Alternatives Evaluation Criteria ............................. 5-8
Exhibit 5.6: Process for Evaluation of Highway Planning Alternatives ..................... 5-9
Exhibit 5.7: Rutherglen Area Realignment Alternatives ........................................ 5-10
Exhibit 5.8: Evaluation of Rutherglen Area Realignment Alternatives ..................... 5-11
Exhibit 5.9: Alternative 1 Pimisi Bay Area - North Side Widening ........................... 5-14
Exhibit 5.10: Alternative 2 Pimisi Bay Area - South Side Widening .......................... 5-15
Exhibit 5.11: Alternative 3 Pimisi Bay Area - South Side Widening/ Realignment .......... 5-16
Exhibit 5.12: Evaluation of Pimisi Bay Area Widening Alternatives ....................... 5-17
Exhibit 8.12: Summary of Regional Criteria Contaminants (Tonnes/Year) 8-15
Exhibit 8.13: Impact Assessment and Environmental Mitigation and Protection Measures 8-18

Appendices

Appendix A: Preliminary Design Plates
Appendix B: Fisheries Report
Appendix C: Terrestrial Ecosystems Report
Appendix D: Noise Review Report
Appendix E: Air Quality Assessment Report
Appendix F: Stage 1 Archaeological Assessment Report
Appendix G: Stage 2 Archaeological Assessment Report
Appendix H: Consultation Record